BRUHAT BANGALORE MAHANAGARA PALIKE

AME OF WORK:- Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Estimation Cost.Rs 50000000.00

escription of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
8.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, orting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per pecifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 8.27,								
SM Culvert								
Thirumenahalli Colony								
Thirumenahalli Main Road	Cum	2	4.80	0.45	0.60	2.59		
Thirumenahalli School Road	Cum	4	7.00	0.45	0.60	7.56		
Jakkur Colony								
Govt School Road	Cum	2	6.00	0.45	0.50	2.70		
Colony Cross Road -1	Cum	2	3.50	0.45	0.50	1.58		
Cross Road-7 (Lakshmi Narasimhaswamy Nilaya)	Cum	2	4.50	0.45	0.50	2.03		
Basavalingappa Nagara Colony								
Basavalingappa Nagar Main	Cum	10	5.00	0.45	0.60	13.50		
Basic rate	351.00							
Area weightage 6%	21.06							
5Km lead & Lift= 57+(2*1.28*5)	69.80							
Sub Total	**441.86**							
Total						**29.95**	**441.86**	**13234.59**
KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
Culvert Deck Slab								
Kattigenahalli Colony								
Kattigenahalli Colony Connecting to Lake								
LHS	Cum	3	6.00	1.50	0.23	6.21		
	Cum	1	11.00	1.80	0.23	4.55		
	Cum	1	10.30	1.80	0.23	4.26		
Thirumenahalli Colony								
Thirumenahalli Main Road	Cum	1	4.80	1.80	0.20	1.73		
Thirumenahalli School Road	Cum	2	7.00	1.80	0.20	5.04		
Jakkur Colony								
Govt School Road	Cum	1	6.00	1.50	0.23	2.07		
Colony Cross Road -1	Cum	1	3.50	1.20	0.23	0.97		
Basavalingappa Nagara Colony								
Basavalingappa Nagar Main Road	Cum	5	5.00	1.50	0.23	8.63		
Basic rate	557.00							

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Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
Area weightage 6%	33.42							
5Km lead & Lift= 57+(2*1.28*5)	69.80							
Sub Total	660.22							
Total						33.46	660.22	22089.11
KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
New Drain								
Kattigenahalli Colony								
SC-ST Smashana Road	Cum	1	170.00	1.05	1.05	187.43		
Kattigenahalli Colony								
Connecting to Lake								
RHS	Cum	1	30.00	1.20	1.05	37.80		
LHS	Cum	1	690.00	1.50	1.20	1242.00		
Chokkanahalli Colony	Cum	1	470.00	1.20	1.05	592.20		
Chokkanahalli Circle (Sri Lakshmi Real Estate)	Cum	2	102.00	1.20	1.05	257.04		
Chokkaanahalli Circle to Temple	Cum	2	223.00	1.20	1.05	561.96		
Thirumenahalli Colony								
Thirumenahalli Main Road	Cum	1	286.00	1.20	1.05	360.36		
Thirumenahalli School Road	Cum	1	138.00	1.20	1.05	173.88		
	Cum	1	105.00	1.05	1.05	115.76		
1st Cross Road	Cum	2.00	76.00	1.05	1.05	167.58		
Cross Road	Cum	2	142.00	1.05	1.05	313.11		
2nd Cross Road	Cum	1	390.00	1.20	1.05	491.40		
Main Road Connect to Agarahara layout								
Jakkur Colony								
Govt School Road								
LHS	Cum	1	120.70	1.05	1.05	133.07		
RHS	Cum	1	110.70	1.05	1.05	122.05		
Colony Cross Road -1								
LHS	Cum	1	27.50	1.05	1.05	30.32		
Cross Road -2	Cum	2	90.70	1.05	1.05	199.99		
Kalpitha Creation Road	Cum	1	72.50	1.05	1.05	79.93		
Cross Road-5	Cum	1	49.50	1.05	1.05	54.57		
Cross Road-6	Cum	1	43.00	1.05	1.05	47.41		
Cross Road-7 (Lakshmi Narasimhaswamy Nilaya)	Cum	2	41.60	1.05	1.05	91.73		
Basavalingappa Nagara Colony								
4th Cross Hattu Mane Layout	Cum	1	30.00	1.20	0.90	32.40		
New Culvert								
Kattigenahalli Colony								
SC-ST Smashana Road	Cum	1	9.00	1.80	1.10	17.82		
Kattigenahalli Colony Connecting to Lake								
LHS	Cum	3	6.00	1.80	1.10	35.64		
	Cum	5	6.00	1.80	1.10	59.40		
RHS	Cum	1	6.00	1.80	1.25	13.50		

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Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cum	1	11.00	2.10	1.25	28.88		
	Cum	1	10.30	2.10	1.25	27.04		
Thirumenahalli Colony								
Thirumenahalli Main Road	Cum	5	4.80	2.10	1.10	55.44		
Thirumenahalli School Road	Cum	2	7.00	2.10	1.10	32.34		
	Cum	1	3.80	2.10	1.10	8.78		
1st Cross Road	Cum	8	5.50	2.10	1.10	101.64		
Main Road Connect to Jakkur Colony								
Govt School Road	Cum	1	6.00	1.80	1.10	11.88		
	Cum	1	6.00	1.80	1.10	11.88		
Colony Cross Road -1	Cum	1	3.50	1.50	1.10	5.78		
Cross Road -4	Cum	1	4.00	1.50	1.10	6.60		
Cross Road-7 (Lakshmi Narasimhaswamy Nilaya)	Cum	1	4.50	1.50	1.10	7.43		
Basavalingappa Nagara Colony								
Basavalingappa Nagar Main Road	Cum	5	5.00	1.80	0.95	42.75		
Drain Desilting								
Jakkur Colony								
Colony Cross Road -1								
RHS	Cum	1	69.00	0.50	0.50	17.25		
Cross Road -3	Cum	1	96.00	0.50	0.50	24.00		
Basavalingappa Nagara Colony								
Basavalingappa Nagar Main Road	Cum	2	125.00	0.50	0.50	62.50		
4th Cross Hattu Mane Layout	Cum	1	112.00	0.45	0.45	22.68		
Over Burden								
Chokkanahalli Colony								
Cross Road	Cum	1	30.00	1.20	0.50	18.00		
Chokkaanahalli Circle to Temple	Cum	2	223.00	1.00	0.50	223.00		
Basic rate	130.00							
Area weightage 6%	7.80							
5Km lead & Lift= 57+(2*1.28*5)	69.80							
Sub Total	**207.60**							
Total						**6126.20**	**207.60**	**1271798.96**
4 KSRB 2-2.4 : Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc., either in pits or in trenches 1.50m and above in width , soft rock/ Ordinary Rock without Blasting not exceeding 1.5 m. in depth, Including stacking the excavated stuff Clear from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications. specification. No. KBS 2.1.C / 2.9.4 / 2.18 / 2.19								
Chokkanahalli Colony								

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Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
Chokkaanahalli Circle to Temple	Cum	1	50.00	1.50	1.10	82.50		I.No.2.6
Basic rate	1421.00							
Area weightage 6%	85.26							
5Km lead=(2*1.28*5)	12.80							
Sub Total	**1519.06**							
Total						**82.50**	**1519.06**	**125322.45**
Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
Precast Cover Slab								
Jakkur Colony								
Colony Cross Road -1	Sqm	1	27.50	0.75		20.63		
LHS	Sqm	1	69.00	0.90		62.10		
RHS	Sqm	1	96.00	0.75		72.00		
Cross Road -3	Sqm	1	72.50	0.75		54.38		
Kalpitha Creation Road								
Basavalingappa Nagara Colony								
Basavalingappa Nagar Main Road	Sqm	2	125.00	0.90		225.00		
4th Cross Hattu Mane Layout	Sqm	1	112.00	0.90		100.80		
					Sub Total	**534.90**		
					Total	**534.90**		
Deduct 50% for Missing/Damaged						**267.45**		
						267.45		
Consider 50% Qnty for Removing & Refixing						**133.73**		
Basic rate	105.00							
Area weightage 6%	6.30							
Sub Total	**111.30**							
Total						**133.73**	**111.30**	**14883.59**
KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
New Drain								
Kattigenahalli Colony								
SC-ST Smashana Road	Cum	1	170.00	1.05	0.15	26.78		
Kattigenahalli Colony Connecting to Lake								
RHS	Cum	1	30.00	1.20	0.15	5.40		
RHS	Cum	1	690.00	1.50	0.15	155.25		
LHS	Cum	1	470.00	1.20	0.15	84.60		
Chokkanahalli Colony								
Chokkanahalli Circle (Sri Lakshmi Real Estate)	Cum	2	102.00	1.20	0.15	36.72		

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Description of work	Unit	Measurement				Qty	Rate	Amount
		No.	L	B	D			
Kattigenahalli Circle to Temple	Cum	2	223.00	1.20	0.15	80.28		
Thirumenahalli Colony								
Thirumenahalli Main Road	Cum	1	286.00	1.20	0.15	51.48		
Thirumenahalli School Road	Cum	1	138.00	1.20	0.15	24.84		
1st Cross Road	Cum	1	105.00	1.05	0.15	16.54		
Cross Road	Cum	2.00	76.00	1.05	0.15	23.94		
2nd Cross Road	Cum	2	142.00	1.05	0.15	44.73		
Main Road Connect to Agarahara layout	Cum	1	390.00	1.20	0.15	70.20		
Jakkur Colony								
Govt School Road								
LHS	Cum	1	120.70	1.05	0.15	19.01		
RHS	Cum	1	110.70	1.05	0.15	17.44		
Colony Cross Road -1								
LHS	Cum	1	27.50	1.05	0.15	4.33		
Cross Road -2	Cum	2	90.70	1.05	0.15	28.57		
Kalpitha Creation Road	Cum	1	72.50	1.05	0.15	11.42		
Cross Road-5	Cum	1	49.50	1.05	0.15	7.80		
Cross Road-6	Cum	1	43.00	1.05	0.15	6.77		
Cross Road-7 (Lakshmi Narasimhaswamy Nilaya)	Cum	2	41.60	1.05	0.15	13.10		
Basavalingappa Nagara Colony								
4th Cross Huttu Mane Layout	Cum	1	30.00	1.20	0.15	5.40		
New Culvert								
Kattigenahalli Colony								
SC-ST Smashana Road	Cum	1	9.00	1.80	0.15	2.43		
Kattigenahalli Colony Connecting to Lake								
LHS	Cum	3	6.00	1.80	0.15	4.86		
	Cum	5	6.00	1.80	0.15	8.10		
RHS	Cum	1	6.00	1.80	0.15	1.62		
	Cum	1	11.00	2.10	0.15	3.47		
	Cum	1	10.30	2.10	0.15	3.24		
Thirumenahalli Colony								
Thirumenahalli Main Road	Cum	5	4.80	2.10	0.15	7.56		
Thirumenahalli School Road	Cum	2	7.00	2.10	0.15	4.41		
1st Cross Road	Cum	1	3.80	2.10	0.15	1.20		
Main Road Connect to Agarahara layout	Cum	8	5.50	2.10	0.15	13.86		
Jakkur Colony								
Govt School Road	Cum	1	6.00	1.80	0.15	1.62		
	Cum	1	6.00	1.80	0.15	1.62		
Colony Cross Road -1	Cum	1	3.50	1.50	0.15	0.79		
Cross Road -4	Cum	1	4.00	1.50	0.15	0.90		
Cross Road-7 (Lakshmi Narasimhaswamy Nilaya)	Cum	1	4.50	1.50	0.15	1.01		
Basavalingappa Nagara Colony								
Basavalingappa Nagar Main Road	Cum	5	5.00	1.80	0.15	6.75		

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Description of work	Unit	Measurement No.	L	B	D	Qty	Rate	Amount
For CC Road								
Chokkanahalli Colony								
Chokkanahalli Circle (Sri Lakshmi Real Estate)	Cum	1	102.00	5.20	0.15	79.56		
Thirumenahalli Colony								
1st Cross Road	Cum	1	71.00	3.80	0.15	40.47		
Jakkur Colony								
Govt School Road	Cum	1	26.00	4.00	0.15	15.60		
Colony Cross Road -1	Cum	1	65.00	2.80	0.15	27.30		
Cross Road -3	Cum	1	96.00	4.80	0.15	69.12		
Cross Road -4	Cum	1	72.80	3.60	0.15	39.31		
Cross Road - 8	Cum	1	95.20	3.00	0.15	42.84		
Basavalingappa Nagara Colony								
4th Cross Hattu Mane Layout	Cum	1	142.00	3.00	0.15	63.90		
Basic rate	5115.00							
Area weightage 6%	306.90							
Sub Total	5421.90							
Total						1176.13	5421.90	6376857.89

Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)

New Drain								
Bottom Raft								
Kattigenahalli Colony								
SC-ST Smashana Road	Cum	1	170.00	0.75	0.15	19.13		
Kattigenahalli Colony Connecting to Lake								
RHS	Cum	1	30.00	0.90	0.15	4.05		
RHS	Cum	1	690.00	1.20	0.15	124.20		
LHS	Cum	1	470.00	0.90	0.15	63.45		
Chokkanahalli Colony								
Chokkanahalli Circle (Sri Lakshmi Real Estate)	Cum	2	102.00	0.90	0.15	27.54		
Chokkaanahalli Circle to Temple	Cum	2	223.00	0.90	0.15	60.21		
Thirumenahalli Colony								
Thirumenahalli Main Road	Cum	1	286.00	0.90	0.15	38.61		
Thirumenahalli School Road	Cum	1	138.00	0.90	0.15	18.63		
1st Cross Road	Cum	1	105.00	0.75	0.15	11.81		
Cross Road	Cum	2	76.00	0.75	0.15	17.10		
2nd Cross Road	Cum	2	142.00	0.75	0.15	31.95		
Main Road Connect to Agarahara layout	Cum	1	390.00	0.90	0.15	52.65		
Jakkur Colony								
Govt School Road								
LHS	Cum	1	120.70	0.75	0.15	13.58		
RHS	Cum	1	110.70	0.75	0.15	12.45		
Colony Cross Road -1								
LHS	Cum	1	27.50	0.75	0.15	3.09		

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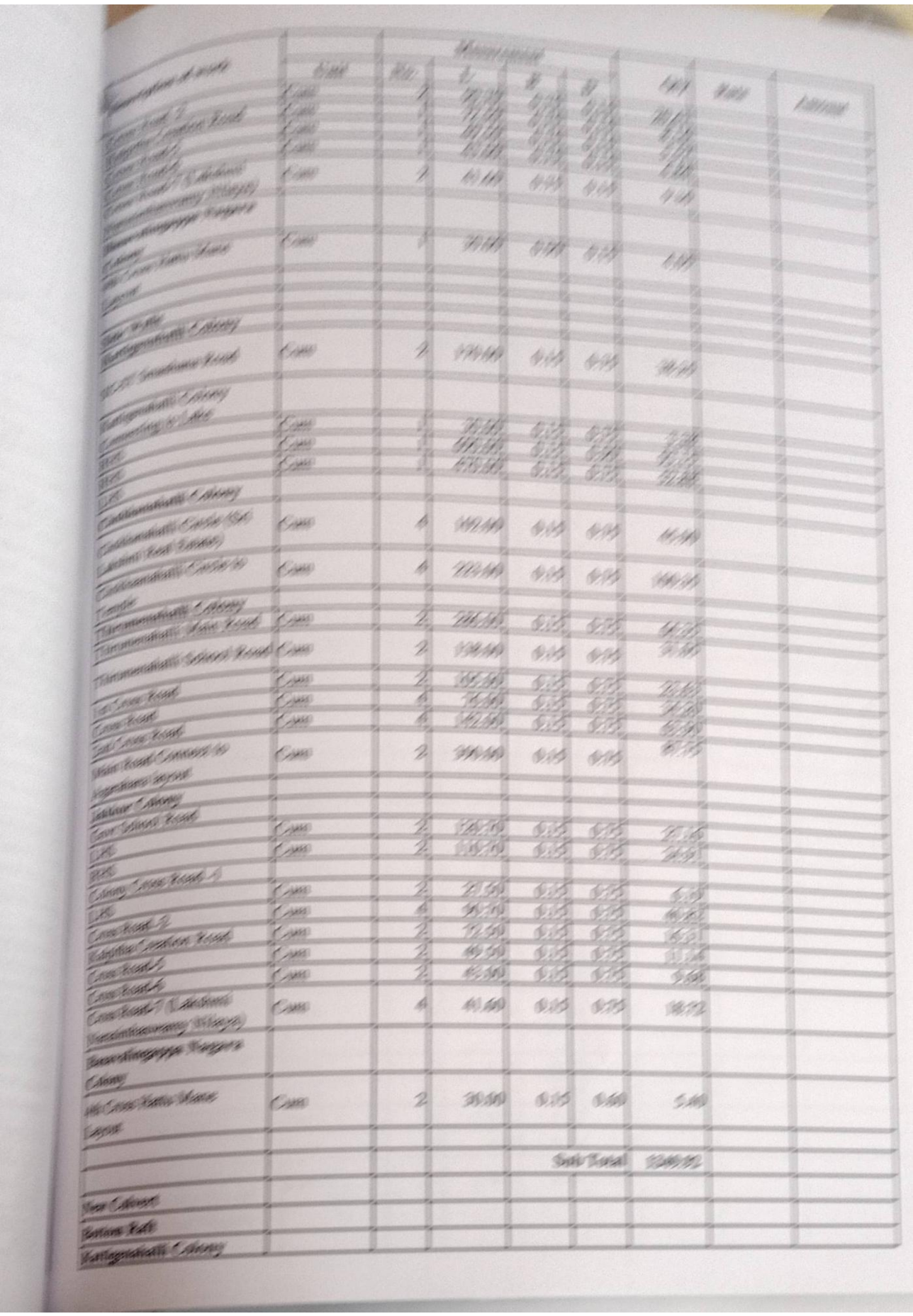

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
SC-ST Smashana Road	Cum	1	9.00	1.50	0.20	2.70		
Kattigenahalli Colony Connecting to Lake								
LHS	Cum	3	6.00	1.50	0.20	5.40		
	Cum	5	6.00	1.50	0.20	9.00		
RHS	Cum	1	6.00	1.50	0.20	1.80		
	Cum	1	11.00	1.80	0.20	3.96		
	Cum	1	10.30	1.80	0.20	3.71		
Thirumenahalli Colony								
Thirumenahalli Main Road	Cum	5	4.80	1.80	0.20	8.64		
Thirumenahalli School Road	Cum	2	7.00	1.80	0.20	5.04		
1st Cross Road	Cum	1	3.80	1.80	0.20	1.37		
Main Road Connect to Agarahara layout	Cum	8	5.50	1.80	0.20	15.84		
Jakkur Colony								
Govt School Road	Cum	1	6.00	1.50	0.20	1.80		
	Cum	1	6.00	1.50	0.20	1.80		
Colony Cross Road -1	Cum	1	3.50	1.20	0.20	0.84		
Cross Road -4	Cum	1	4.00	1.20	0.20	0.96		
Cross Road-7 (Lakshmi Narasimhaswamy Nilaya)	Cum	1	4.50	1.20	0.20	1.08		
Basavalingappa Nagara Colony								
Basavalingappa Nagar Main Road	Cum	5	5.00	1.50	0.20	7.50		
Side Walls								
Kattigenahalli Colony								
SC-ST Smashana Road	Cum	2	9.00	0.20	0.75	2.70		
Kattigenahalli Colony Connecting to Lake								
LHS	Cum	6	6.00	0.20	0.75	5.40		
	Cum	10	6.00	0.20	0.75	9.00		
RHS	Cum	2	6.00	0.20	0.90	2.16		
	Cum	2	11.00	0.20	0.90	3.96		
	Cum	2	10.30	0.20	0.90	3.71		
Thirumenahalli Colony								
Thirumenahalli Main Road	Cum	10	4.80	0.20	0.75	7.20		
Thirumenahalli School Road	Cum	4	7.00	0.20	0.75	4.20		
1st Cross Road	Cum	2	3.80	0.20	0.75	1.14		
Main Road Connect to Agarahara layout	Cum	16	5.50	0.20	0.75	13.20		
Jakkur Colony								
Govt School Road	Cum	2	6.00	0.20	0.75	1.80		
	Cum	2	6.00	0.20	0.75	1.80		
Colony Cross Road -1	Cum	2	3.50	0.20	0.75	1.05		
Cross Road -4	Cum	2	4.00	0.20	0.75	1.20		
Cross Road-7 (Lakshmi Narasimhaswamy Nilaya)	Cum	2	4.50	0.20	0.75	1.35		
Basavalingappa Nagara Colony								

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Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
Basavalingappa Nagar Main Road	Cum	10	5.00	0.20	0.60	6.00		
					Sub Total	137.30		
Basic rate	6670.00							
Area weightage 6%	400.20							
Sub Total	7070.20							
Total						1487.23	7070.20	10514979.96

KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2

For Drain	Cum	From item no.7				1349.92		
	kg	Steel assumed 60Kg/Cum of Concrete				80995.28		
	tonne					81.00		
For Culvert	Cum	From item No 07				137.30		
	kg	Steel assumed 90Kg/Cum of Concrete				12357.36		
	tonne					12.36		
Basic rate	61365.00							
Area weightage 6%	3681.90							
Sub Total	65046.90							
Total						93.35	65046.90	6072299.51

Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)

Provide 50% for Missing/Damaged		From item no.5				267.45		
Kattigenahalli Colony								
SC-ST Smashana Road	Sqm	1	170.00	0.75		127.50		
Kattigenahalli Colony Connecting to Lake								
RHS	Sqm	1	30.00	0.90		27.00		
LHS	Sqm	1	470.00	0.90		423.00		
Chokkanahalli Colony								
Chokkanahalli Circle (Sri Lakshmi Real Estate)	Sqm	2	102.00	0.90		183.60		
Cross Road	Sqm	1	30.00	1.20		36.00		
Chokkaanahalli Circle to Temple	Sqm	2	223.00	0.90		401.40		
Thirumenahalli Colony								
Thirumenahalli Main Road	Sqm	1	286.00	0.90		257.40		
Thirumenahalli School Road	Sqm	1	138.00	0.90		124.20		
1st Cross Road	Sqm	1	105.00	0.75		78.75		
Cross Road	Sqm	2.00	76.00	0.75		114.00		
2nd Cross Road	Sqm	2	142.00	0.75		213.00		
Main Road Connect to Agarahara layout	Sqm	1	390.00	0.90		351.00		

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Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
Jakkur Colony								
Govt School Road	Sqm	1	120.70	0.75		90.53		
LHS	Sqm	1	110.70	0.75		83.03		
RHS	Sqm	2	90.70	0.75		136.05		
Cross Road -2	Sqm	1	49.50	0.75		37.13		
Cross Road-5	Sqm	1	43.00	0.75		32.25		
Cross Road-6	Sqm	2	41.60	0.75		62.40		
Cross Road-7 (Lakshmi Narasimhaswamy Nilaya)								
Basavalingappa Nagara Colony								
4th Cross Hattu Mane Layout	Sqm	1	30.00	0.90		27.00		
Kattigenahalli Colony								
Kattigenahalli Colony Connecting to Lake RHS	Sqm	1	690.00	1.20		828.00		
Data Rate	**2337.00**							
Total						**3900.68**	**2337.00**	**9115877.48**

10 Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha

New Culvert								
Kattigenahalli Colony								
SC-ST Smashana Road	Sqm	1	9.00	1.50		13.50		
Kattigenahalli Colony Connecting to Lake								
LHS	Sqm	3	6.00	1.50		27.00		
	Sqm	5	6.00	1.50		45.00		
RHS	Sqm	1	6.00	1.50		9.00		
	Sqm	1	11.00	1.80		19.80		
	Sqm	1	10.30	1.80		18.54		
Thirumenahalli Colony								
Thirumenahalli Main Road	Sqm	5	4.80	1.80		43.20		
Thirumenahalli School Road	Sqm	2	7.00	1.80		25.20		
1st Cross Road	Sqm	1	3.80	1.80		6.84		
Main Road Connect to Agarahara layout	Sqm	8	5.50	1.80		79.20		
Jakkur Colony								
Govt School Road	Sqm	1	6.00	1.50		9.00		
	Sqm	1	6.00	1.50		9.00		
Colony Cross Road -1	Sqm	1	3.50	1.20		4.20		
Cross Road -4	Sqm	1	4.00	1.20		4.80		
Cross Road-7 (Lakshmi Narasimhaswamy Nilaya)	Sqm	1	4.50	1.20		5.40		
Basavalingappa Nagara Colony								
Basavalingappa Nagar Main Road	Sqm	5	5.00	1.50		37.50		
Data rate	**5418.00**							

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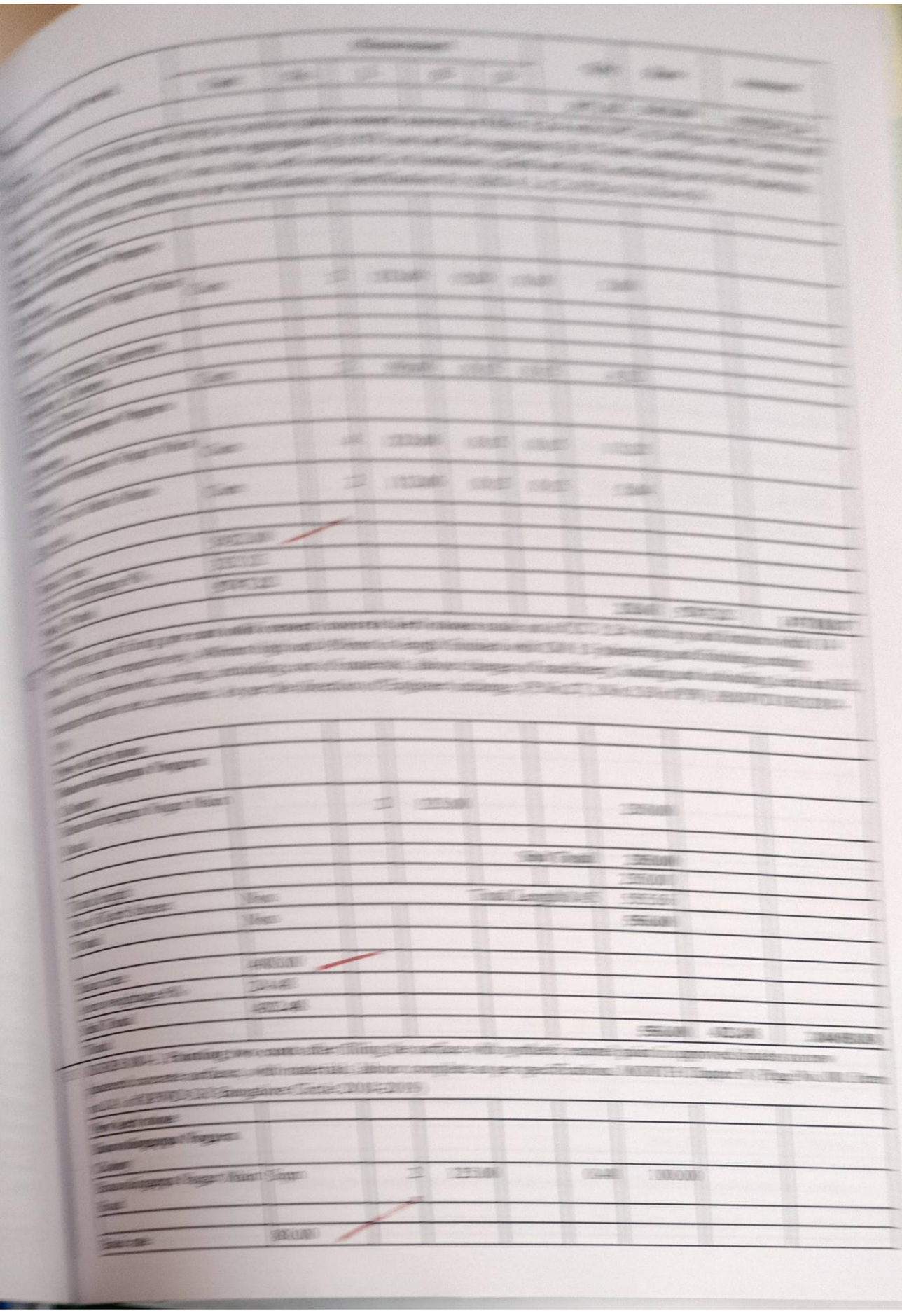

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	Description of work	Unit	Measurement No.	L	B	D	Qty	Rate	Amount
	Area weightage 6%	4.80							
	Sub Total	84.80							
	Total						100.00	84.80	8480.00
4	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	New Road								
	Kattigenahalli Colony								
	SC-ST Smashana Road	Sqm	1	297.00	8.20		2435.40		
	Chokkanahalli Colony								
	Chokkanahalli Circle (Sri Lakshmi Real Estate)	Sqm	1	102.00	5.20		530.40		
	Jakkur Colony								
	Cross Road - 8	Sqm	1	95.20	3.00		285.60		
		39.00							
	Basic rate	2.34							
	Area weightage 6%	41.34							
	Sub Total								
	Total						3251.40	41.34	134412.88
5	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Kattigenahalli Colony								
	SC-ST Smashana Road	Sqm	1	297.00	8.20		2435.40		
	Chokkanahalli Colony								
	Chokkanahalli Circle (Sri Lakshmi Real Estate)	Sqm	1	102.00	5.20		530.40		
	Jakkur Colony								
	Cross Road - 8	Sqm	1	95.20	3.00		285.60		
		6.00							
	Basic rate	0.36							
	Area weightage 6%	6.36							
	Sub Total								
	Total						3251.40	6.36	20678.90
16	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	New Road								
	Kattigenahalli Colony								
	SC-ST Smashana Road	Cum	1	297.00	8.20	0.15	365.31		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	1994.92							
	Total						365.31	1994.92	728764.23
17	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								

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Description of work	Unit	Measurement No.	L	B	D	Qty	Rate	Amount
New Road								
Kattigenahalli Colony								
SC-ST Smashana Road	Cum	1	297.00	8.20	0.23	560.14		
	1888.00							
Basic rate	113.28							
Area weightage 6%	2001.28							
Sub Total								
Total						560.14	2001.28	1121000.98

KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.158,I.No.21.1)

New Road								
Kattigenahalli Colony								
SC-ST Smashana Road	Sqm	1	297.00	8.20		2435.40		
	21.00							
Basic rate	1.26							
Area weightage 6%	22.26							
Sub Total								
Total						2435.40	22.26	54212.00

KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)

	Sqm	From Item No. 18				2435.40		
	28.00							
Basic rate	1.68							
Area weightage 6%	29.68							
Sub Total								
Total						2435.40	29.68	72282.67

KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)

New Road								
Kattigenahalli Colony								
SC-ST Smashana Road	Cum	1	297.00	8.20	0.05	121.77		
	6045.00							
Basic rate	362.70							
Area weightage 6%	6407.70							
Sub Total								
Total						121.77	6407.70	780265.63

KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).

New Road								
Kattigenahalli Colony								
SC-ST Smashana Road	Sqm	1	297.00	8.20		2435.40		
	5.00							
Basic rate	0.30							
Area weightage 6%	5.30							
Sub Total								

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Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
Total						2435.40	5.30	12907.62

KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)

	Sqm	From Item No. 21				2435.40		
Basic rate	12.00							
Area weightage 6%	0.72							
Sub Total	**12.72**							
Total						**2435.40**	**12.72**	**30978.29**

Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). (P.No-171I No-21.78.12)

Kattigenahalli Colony								
SC-ST Smashana Road	Cum	1	297.00	8.20	0.04	97.42		
	7111.00							
Basic rate	426.66							
Area weightage 6%	**7537.66**							
Sub Total								
Total						**97.42**	**7537.66**	**734288.69**

KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)

Kattigenahalli Colony								
SC-ST Smashana Road								
For Centre	Sqm	0.5	297.00	0.10		14.85		
For Edges	Sqm	2	297.00	0.10		59.40		
	429.00							
Basic rate	25.74							
Area weightage 6%	**454.74**							
Sub Total								
Total						**74.25**	**454.74**	**33764.45**

25 KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1

Jakkur Colony								
Govt School Road	Cum	1	26.00	4.00	0.20	20.80		
Colony Cross Road -1	Cum	1	65.00	2.80	0.20	36.40		
Cross Road -3	Cum	1	96.00	4.80	0.20	92.16		
Cross Road -4	Cum	1	72.80	3.60	0.20	52.42		
Basavalingappa Nagara Colony								
4th Cross Hattu Mane Layout	Cum	1	142.00	3.00	0.20	85.20		
Thirumenahalli Colony								
1st Cross Road	Cum	1	71.00	3.80	0.20	53.96		

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Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
Basic rate	899.00							
Area weightage 6%	53.94							
Sub Total	952.94							
Total						340.94	952.94	324891.55

Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1

Chokkanahalli Colony								
Chokkanahalli Circle (Sri Lakshmi Real Estate)	Cum	1	102.00	5.20	0.15	79.56		
Thirumenahalli Colony								
1st Cross Road	Cum	1	71.00	3.80	0.15	40.47		
Jakkur Colony								
Govt School Road	Cum	1	26.00	4.00	0.15	15.60		
Colony Cross Road -1	Cum	1	65.00	2.80	0.15	27.30		
Cross Road -3	Cum	1	96.00	4.80	0.15	69.12		
Cross Road -4	Cum	1	72.80	3.60	0.15	39.31		
Cross Road - 8	Cum	1	95.20	3.00	0.15	42.84		
Basavalingappa Nagara Colony								
4th Cross Hattu Mane Layout	Cum	1	142.00	3.00	0.15	63.90		
Basic rate	4916.00							
Area weightage 6%	294.96							
sub Total	5210.96							
Total						378.10	5210.96	1970274.40
							Grand Total	41877394.82
							DPR Charges (1% of estimated cost)	500000.00
							Project management And Consultancy Charges(1% of estimated cost)	500000.00
							GST Charges (12% of estimated cost)	5025287.38
							Tender Premium (5% of estimated Cost)	2093869.74
							Miscellenious and rounding	3448.06
							Total Amount	50000000.00
							RUPEES FIVE CROREONLY	

Administrative Approval
Accorded For Rs. Fifty Lakhs
Head of A/C P.18.78
CER NO :..... Dt: 24/11/20
E.E. (Project)

Technical Sanction
Accorded For Rs. Fifty Lakhs
Head of A/C P.18.78
CER NO :..... Dt:...
CE (YNH)

CERTIFICATE:
1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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